

Contents

Volume 18, Numbers 1–6

Volume 18 Number 1

January–February 2002

In this Issue 1

Editorials

- Islet autoantibodies in cord blood: maternal, fetal, neither?
M. Rewers 2
-

Review Articles

- The role of increased liver triglyceride content: a culprit of diabetic hyperglycaemia?
S. Song 5
- The insulin gene in diabetes
A. Pugliese and D. Miceli 13
- Reaching those most in need: a review of diabetes self-management interventions in disadvantaged populations
E. G. Eakin, S. S. Bull, R. E. Glasgow and M. Mason 26
-

Research Articles

- Risk assessment for developing type 1 diabetes: intentions of behavioural changes prior to risk notification
C. Hendrieckx, F. De Smet, I. Kristoffersen and C. Bradley 36
- Autoantibodies to GAD, IA-2 and insulin in ICA-positive first-degree relatives of children with type 1 diabetes: a comparison between parents and siblings
S. Korhonen, M. M. Knip, P. Kulmala, K. Savola, H. K. Åkerblom, M. Knip and The Finnish Study Group for ICA Screening 43
- Changes in endoneurial blood flow, motor nerve conduction velocity and vascular relaxation of epineurial arterioles of the sciatic nerve in ZDF-obese diabetic rats
L. J. Coppey, J. S. Gellett, E. P. Davidson, J. A. Dunlap and M. A. Yorek 49
- Prevalence and fate of type 1 diabetes-associated autoantibodies in cord blood samples from newborn infants of non-diabetic mothers
A.-M. Hämäläinen, J. Ilonen, O. Simell, K. Savola, P. Kulmala, A. Kupila, T. Simell, R. Erkkola, P. Koskela and M. Knip 57
- Serum IFN- γ and IL-10 levels are associated with disease progression in non-obese diabetic mice
N. C. Schloot, P. Hanifi-Moghaddam, C. Goebel, S. V. Shatavi, S. Flohé, H. Kolb and H. Rothe 64
- Effects of angiotensin II receptor antagonist on endothelial vasomotor function and urinary albumin excretion in type 2 diabetic patients with microalbuminuria
K. C. B. Tan, W.-S. Chow, V. H. G. Ai and K. S. L. Lam 71
-

Features

- Conference Calendar 77
- Current Literature in Diabetes 78
-

Volume 18 Supplement 1**January–February 2002**

An introduction to new advances in diabetes <i>R. G. Leslie and P. Pozzilli</i>	S1
Therapeutic targets in the management of Type 1 diabetes <i>P. D. Home</i>	S7
Diabetes management in the new millennium using insulin pump therapy <i>B. W. Bode, H. T. Sabbah, T. M. Gross, L. P. Fredrickson and P. C. Davidson</i>	S14
Insulin analogues: have they changed insulin treatment and improved glycaemic control? <i>S. Madsbad</i>	S21
Development of oral insulin: progress and current status <i>J. G. Still</i>	S29
The evolving role of oral insulin in the treatment of diabetes using a novel Rapidmist™ System <i>P. Modi, M. Mihic and A. Lewin</i>	S38
Making 'sense' of diabetes: using a continuous glucose sensor in clinical practice <i>E. Cheyne and D. Kerr</i>	S43
Glucose monitoring by reverse iontophoresis <i>R. O. Potts, J. P. Tamada and M. J. Tierney</i>	S49

Volume 18 Number 2**March–April 2002**

In this Issue	87
----------------------	----

Review Articles

Considerations for treating dyslipidemia in special diabetic populations <i>A. Peters Harmel</i>	88
Maternal hypoglycemia during pregnancy in type 1 diabetes: maternal and fetal consequences <i>E. W. M. T. ter Braak, I. M. Evers, D. Willem Erkelens and G. H. A. Visser</i>	96
The search for type 2 diabetes susceptibility genes using whole-genome scans: an epidemiologist's perspective <i>M. P. Stern</i>	106

Research Articles

Thiazolidinediones for the prevention of diabetes in the non-obese diabetic (NOD) mouse: implications for human type 1 diabetes <i>P. E. Beales and P. Pozzilli</i>	114
Role of amylin in insulin secretion and action in humans: antagonist studies across the spectrum of insulin sensitivity <i>K. J. Mather, G. Paradisi, R. Leaming, G. Hook, H. O. Steinberg, N. Fineberg, R. Hanley and A. D. Baron</i>	118
Efficacy and safety of rosiglitazone plus metformin in Mexicans with type 2 diabetes <i>F. J. Gómez-Pérez, G. Fanghanel-Salmón, J. Antonio Barbosa, J. Motes-Villarreal, R. A. Berry, G. Warsi and E. M. Gould</i>	127
Incidence and onset features of diabetes in African-American and Latino children in Chicago, 1985–1994 <i>R. Lipton, H. Keenan, K. U. Onyemere and S. Freels</i>	135
No role of calcium- and ATP-dependent potassium channels in insulin-induced vasodilation in humans <i>in vivo</i> <i>E. J. Abbink, A. J. Walker, H. A. van der Sluijs, C. J. Tack and P. Smits</i>	143

Higher fasting insulin but lower fasting C-peptide levels in African Americans in the US population <i>M. I. Harris, C. C. Cowie, K. Gu, M. E. Francis, K. Flegal and M. S. Eberhardt</i>	149
Metformin decreases platelet superoxide anion production in diabetic patients <i>P. Gargiulo, D. Caccese, P. Pignatelli, C. Brufani, F. De Vito, R. Marino, R. Lauro, F. Violi, U. Di Mario and V. Sanguigni</i>	156

Features

Book Review	160
Conference Calendar	161
Current Literature in Diabetes	162

Volume 18 Supplement 2

March–April 2002

Are all glitazones the same? <i>L. V. Gaal and A. J. Scheen</i>	S1
Insulin resistance in type 2 diabetes: role of fatty acids <i>P. Arner</i>	S5
The mode of action of thiazolidinediones <i>H. Hauner</i>	S10
Differentiating members of the thiazolidinedione class: a focus on efficacy <i>B. J. Goldstein</i>	S16
Differentiating members of the thiazolidinedione class: a focus on safety <i>H. E. Lebovitz</i>	S23
Where thiazolidinediones will fit <i>C. A. Reasner</i>	S30

Volume 18 Number 3

May–June 2002

In this Issue	171
---------------	-----

Review Articles

Was Willis right? Thoughts on the interactions of depression and diabetes <i>R. R. Rubin and M. Peyrot</i>	173
Oxidative stress and diabetic neuropathy: pathophysiological mechanisms and treatment perspectives <i>P. S. van Dam</i>	176
Brain-derived neurotrophic factor (BDNF) regulates glucose and energy metabolism in diabetic mice <i>T. Nakagawa, M. Ono-Kishino, E. Sugaru, M. Yamanaka, M. Taiji and H. Noguchi</i>	185
Insulin resistance in type I diabetes <i>C. J. Greenbaum</i>	192
Diagnosing coronary artery disease in diabetic patients <i>E. A. Ashley, V. Raxwal, M. Finlay and V. Froelicher</i>	201

Research Articles

Elevated fasting insulin concentrations associate with impaired insulin signaling in skeletal muscle of healthy subjects independent of obesity <i>E. Korshennikova, A. Seppälä-Lindroos, S. Vehkavaara, T. Goto and A. Virkamäki</i>	209
--	-----

Regulation of muscle malonyl-CoA levels in the nutritionally insulin-resistant desert gerbil, <i>Psammomys obesus</i> <i>E. Shafir, E. Ziv, A. K. Saha and N. B. Ruderman</i>	217
Prevention of diabetic nephropathy in mice by a diet low in glycoxidation products <i>F. Zheng, C. He, W. Cai, M. Hattori, M. Steffes and H. Vlassara</i>	224
The insulin-mediated vascular and blood pressure responses are suppressed in CGRP-deficient normal and diabetic rats <i>N. Salem and J. C. Dunbar</i>	238

Features

Current Literature in Diabetes	245
Conference Calendar	253

Volume 18 Number 4

July–August 2002

In This Issue	255
---------------	-----

Editorial

The DPT-1 Trial: a negative result with lessons for future type 1 diabetes prevention <i>P. Pozzilli</i>	257
---	-----

Review Articles

Neurovascular disease, antioxidants and glycation in diabetes <i>P. Dickinson, A. L. Carrington, G. S. Frost and A. J. M. Boulton</i>	260
Considerations on blood glucose management in Type 2 diabetes mellitus <i>P. Home, A. Chacra, J. Chan, A. Emslie-Smith, L. Sorensen and P. Van Crombrugge on behalf of the Worldwide Initiative for Diabetes Education (WorldWIDE)</i>	273
Haemodynamics in microvascular complications in type 1 diabetes <i>R. Candido and T. J. Allen</i>	286

Research Articles

α 2-Heremans Schmid glycoprotein, a putative inhibitor of tyrosine kinase, prevents glucose toxicity associated with cardiomyocyte dysfunction <i>J. Ren and A. J. Davidoff</i>	305
Commentary Alpha2-HS glycoprotein: a protein in search of a function <i>P. Arnaud and L. Kalabay</i>	311
Effects of protein kinase C β inhibition on neurovascular dysfunction in diabetic rats: interaction with oxidative stress and essential fatty acid dysmetabolism <i>N. E. Cameron and M. A. Cotter</i>	315
The Continuous Glucose Monitoring System (CGMS) in type 1 diabetic children is the way to reduce hypoglycemic risk <i>R. Schiaffini, P. Ciampalini, A. Fierabracci, S. Spera, P. Borrelli, G. F. Bottazzo and A. Crinò</i>	324

Commentary

Continuous glucose monitoring in managing diabetes in children

P. W. Speiser

330

Erratum

332

Features

Book review

333

Current Literature in Diabetes

334

Conference Calendar

342

Volume 18 Supplement 3**September–October 2002****Introduction***C. L. Mogensen and P. Zimmet*

S1

Diabetes trends in Europe*P. Passa*

S3

Diabetes trends in Japan*R. Kawamori*

S9

Diabetes trends in Africa*A. A. Motala*

S14

Diabetes trends in the USA*J. S. Skyler and C. Oddo*

S21

Diabetes trends in Latin America*P. Aschner*

S27

Considerations in assessing effectiveness and costs of diabetes care: lessons from DARTS*A. D. Morris*

S32

Challenges in optimal metabolic control of diabetes*A. Liebl*

S36

The underuse of insulin therapy in North America*M. C. Riddle*

S42

Insulin therapy in Europe*W. A. Scherbaum*

S50

An overview of insulin glargine*P. D. Home and S. G. Ashwell*

S57

Patient perceptions of diabetes and diabetes therapy: assessing quality of life*C. Bradley and J. Speight*

S64

Oral combination therapy for type 2 diabetes*G. Charpentier*

S70

Combination therapy with insulin and oral agents: optimizing glycemic control in patients with type 2 diabetes mellitus*H. Yki-Järvinen*

S77

Reduction of cardiovascular events and microvascular complications in diabetes with ACE inhibitor treatment: HOPE and MICRO-HOPE*H. C. Gerstein*

S82

Volume 18 Number 5**September–October 2002**

In This Issue 343

Review Articles

- An adipocentric view of signaling and intracellular trafficking
S. Mora and J. E. Pessin 345
- Current knowledge of Japanese type 1 diabetic syndrome
N. Abiru, E. Kawasaki and K. Eguchi 357
- Cytokine detection by ELISPOT: relevance for immunological studies in type 1 diabetes
G. Meierhoff, P. A. Ott, P. V. Lehmann and N. C. Schloot 367
-

Research Articles

- The metabolic demands of driving for drivers with type 1 diabetes mellitus
D. J. Cox, L. A. Gonder-Frederick, B. P. Kovatchev and W. L. Clarke 381
- Contributions of endothelin-1 and sodium hydrogen exchanger-1 in the diabetic myocardium
D. Hileeto, M. Cukiernik, S. Mukherjee, T. Evans, Y. Barbin, D. Downey, M. Karmazyn and S. Chakrabarti 386
- Transition metals and polyol pathway in the development of diabetic neuropathy in rats
J. Nakamura, Y. Hamada, S. Chaya, E. Nakashima, K. Naruse, K. Kato, Y. Yasuda, H. Kamiya, F. Sakakibara, N. Koh and N. Hotta 395
-

Historical Perspective

- R. D. Lawrence: a father of international diabetes
J. G. L. Jackson 403
-

Features

- Book review 418
- Current Literature in Diabetes 419
- Conference Calendar 427
-

Volume 18 Number S4**November–December 2002**

-
- Conference Schedule S1
- Abstracts S3
- Author Index S45
-

Volume 18 Number 6**November–December 2002**

In This Issue 429

Review Articles

- Therapy of type 2 diabetes mellitus based on the actions of glucagon-like peptide-1
J. J. Holst 430
- Glucose-responsive insulin-producing cells from stem cells
D. J. Kaczorowski, E. S. Patterson, W. E. Jastromb and M. J. Shamblott 442
- Glucose-stimulated signaling pathways in biphasic insulin secretion
S. G. Straub and G. W. G. Sharp 451
-

Research Articles

- Normal renal function 8 to 13 years after Cyclosporine A therapy in 285 diabetic patients
R. Assan, F. Blanchet, G. Feutren, J. Timsit, E. Larger, C. Boitard, C. Amiel and J.-F. Bach 464
- Impaired glucose tolerance and insulinopenia in the GK-rat causes peripheral neuropathy
Y. Murakawa, W. Zhang, C. R. Pierson, T. Brismar, C.-G. Östenson, S. Efendic and A. A. F. Sima 473
- Effects of nateglinide and glibenclamide on postprandial lipid and glucose metabolism in type 2 diabetes
J. Vakkilainen, N. Mero, A. Schweizer, J. E. Foley and M.-R. Taskinen 484
-

Features

- Current Literature in Diabetes 491
- Conference Calendar 499
- Thank you to our Reviewers 500
-
- Author Index 501
- Keyword Index 502
- Volume Contents iii
-